## **ABSTRACT**

The present invention relates to a method of producing an optically active 1-aryl-2-fluoro-substituted ethylamine compound of the formula [2] or a salt thereof by hydrogenolysis of an optically active secondary amine compound of the formula [1] or a salt thereof in the presence of a transition metal catalyst of Group VIII [Chem. 59]

$$CF_nH_{(3-n)}$$
 $N$ 
 $CF_0H_5$ 
 $CF_0H_5$ 

[where Ar represents an aryl group; n represents an integer of 1 or 2; and \* represents 10 an asymmetric carbon]

[Chem. 60]

[where Ar represents an aryl group; n represents an integer of 1 or 2; and \* represents an asymmetric carbon].